

# LARGE SEISMIC SWAY BRACE PIPE ATTACHMENT

## FIGURE 015



**Function:**

Designed for bracing pipe against sway and seismic disturbance. The pipe attachment component of a sway brace system used in conjunction with a PHD Manufacturing structural attachment fitting, and joined together with a bracing pipe element forms a complete sway brace assembly. Sway brace assemblies are intended to be installed in accordance with NFPA 13 and the manufacturer's installation instructions.

**Size:** Pipe size 2-1/2" thru 8".

**Material:** Carbon steel

**Finish:** Electro-galvanized

**Install:** Place over the pipe to be braced, adjust brace angle, and insert bracing pipe through opening leaving a minimum of 1" extending from attachment. Brace pipe can be installed on top or bottom of pipe to be braced but must be a minimum of 6" away from a pipe joint. Tighten two hex head cone point set bolts until heads bottom out on attachment, ensuring proper torque has been applied.

**Approvals:** Underwriters Laboratories listed for US and Canada (2-1/2" thru 6" only) and Factory Mutual approved. Listed for use with NFPA and PHD sway brace components only.



FM Maximum Design Load							
Brace: 1" Thru 2" SCH40 Pipe							
Pipe Size SCH 10, 40 & Flow Pipe	Brace Angle From Vertical (Degrees)	lbs.	kN	Wt. Each			
				1" Brace Pipe		1 1/4" Brace Pipe	
				lbs.	kg	lbs.	kg
2 1/2	30°-44°	1020	(4.53)	1.31	(0.59)	1.49	(0.68)
	45°-59°	1440	(6.40)	1.31	(0.59)	1.49	(0.68)
	60°-74°	1770	(7.87)	1.31	(0.59)	1.49	(0.68)
	75°-90°	1970	(8.76)	1.31	(0.59)	1.49	(0.68)
3	30°-44°	1080	(4.80)	1.40	(0.64)	1.57	(0.71)
	45°-59°	1530	(6.80)	1.40	(0.64)	1.57	(0.71)
	60°-74°	1870	(8.31)	1.40	(0.64)	1.57	(0.71)
4	75°-90°	2090	(9.29)	1.40	(0.64)	1.57	(0.71)
	30°-44°	1020	(4.53)	1.53	(0.69)	1.70	(0.77)
	45°-59°	1450	(6.44)	1.53	(0.69)	1.70	(0.77)
	60°-74°	1770	(7.87)	1.53	(0.69)	1.70	(0.77)
6	75°-90°	1980	(8.80)	1.53	(0.69)	1.70	(0.77)
	30°-44°	640	(2.84)	1.81	(0.82)	1.98	(0.90)
	45°-59°	900	(4.00)	1.81	(0.82)	1.98	(0.90)
	60°-74°	1110	(4.93)	1.81	(0.82)	1.98	(0.90)
8	75°-90°	1240	(5.51)	1.81	(0.82)	1.98	(0.90)
	30°-44°	570	(2.53)	2.07	(0.94)	2.24	(1.02)
	45°-59°	810	(3.60)	2.07	(0.94)	2.24	(1.02)
	60°-74°	990	(4.40)	2.07	(0.94)	2.24	(1.02)
	75°-90°	1100	(4.89)	2.07	(0.94)	2.24	(1.02)

UL Maximum Design Load		
Pipe Size SCH 10 & 40	lbs.	kN
2 1/2	680	(3.02)
3	680	(3.02)
4	680	(3.02)
6	1090	(4.85)

When governed by NFPA13 2019 or later, multiply FM approved loads by 0.682.

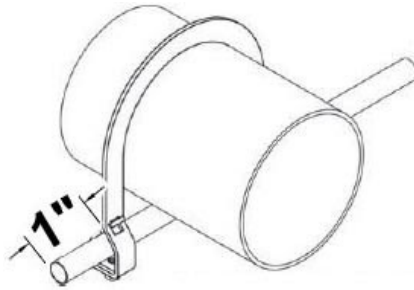
System No.		Location		Spec Section		Paragraph	
Submitted By		Date		Approved		Date	

# LARGE SEISMIC SWAY BRACE PIPE ATTACHMENT

## FIGURE 015



- Pipe Braced:** 2 1/2", 3", 4", 6", 8"  
**Bracing:** 1" Or 1 1/4" SCH40 steel pipe  
**Function:** Designed for bracing pipe against sway and seismic disturbance. The pipe attachment component of a sway brace system used in conjunction with a PHD Manufacturing structural attachment fitting, and joined together with a bracing pipe element forms a complete sway brace assembly. Sway brace assemblies are intended to be installed in accordance with NFPA 13 and the manufacturer's installation instructions.  
**Approvals:** Underwriters Laboratories listed for US and Canada; Sizes 2 1/2" through 6"  
 Factory Mutual approved; Sizes 2 1/2" through 8"  
 Listed for use with NFPA and PHD sway brace components only  
**Material:** Low Carbon Steel  
**Installation:** Place over the pipe to be braced, adjust brace angle, and insert bracing pipe through opening leaving a minimum of 1" extending from attachment. Brace pipe can be installed on top or bottom of pipe to be braced but must be a minimum of 6" away from a pipe joint. Tighten two hex head cone point set bolts until heads bottom out on attachment, ensuring proper torque has been applied.  
**(This product is not compatible with metric pipe.)**



UL Maximum Design Loads				
Pipe Size	Pipe Schedule	Brace Size	Brace Schedule	lbs.
2 1/2	10 & 40	1 & 1 1/4	40	680
3	10 & 40	1 & 1 1/4	40	680
4	10 & 40	1 & 1 1/4	40	680
6	10 & 40	1 & 1 1/4	40	1090

FM Approved Loads							
Orientation	Pipe Size	Pipe Schedule	Allowable Horizontal Capacity Per Installation Angle (lbs.)				Brace Member
			Brace Angle From Vertical				
			30°-44°	45°-59°	60°-74°	75°-90°	
Lateral	2 1/2	LW, 10, 40	1020	1440	1770	1970	1" or 1 1/4" Schedule 40 Pipe
Lateral	3	LW, 10, 40	1080	1530	1870	2090	1" or 1 1/4" Schedule 40 Pipe
Lateral	4	LW, 10, 40	1020	1450	1770	1980	1" or 1 1/4" Schedule 40 Pipe
Lateral	6	LW, 10, 40	640	900	1110	1240	1" or 1 1/4" Schedule 40 Pipe
Lateral	8	LW, 10, 40	570	810	990	1100	1" or 1 1/4" Schedule 40 Pipe

When governed by NFPA13 2019 or later, multiply FM approved loads by 0.682.

NOTE: LW above refers to FM Approved Lightwall pipe, commonly referred to as Schedule 7.

The Complete Line of Pipe Supports and Devices  
 Pipe Hangers ▲ Strut & Accessories ▲ Pipe Clamps ▲ Beam Clamps ▲ Shields

System No.		Location		Spec Section		Paragraph	
Submitted By		Date		Approved		Date	